

CLAIMS

What is claimed is:

1. A laser alignment device of a circular saw machine, comprising:

5 a cover defining a plurality of laser holes on a edge of the cover and a plurality of rectangular receiving slots, the cover further including a fixing structure for fixing the circular saw machine;

a laser module including a rectangular base fixed in the rectangular receiving slot and a laser source arranged in the rectangular base corresponding to the laser hole; and

10 a power control-supply unit arranged in the cover and electrically connecting to the laser module.

2. The laser alignment device of a circular saw machine as claimed as claim 1, wherein the cover includes a top cover having a plurality of screw bases on a inside of the top cover, a bottom cover defining a plurality of sinking
15 holes on a outside of the bottom cover, and a plurality of bolts inserting into each of sinking holes for locking the screw base; a inside of the top cover is relative to a inside of the bottom cover.

3. The laser alignment device of a circular saw machine as claimed as claim 2, wherein the top cover has a protruding ring on a inside of the top
20 cover and the bottom cover has a concave ring on a inside of the bottom cover, the protruding ring mates with the concave ring.

4. The laser alignment device of a circular saw machine as claimed as claim 1, wherein the cover includes the top cover and the bottom cover, a inside of the top cover is relative to a inside of the bottom cover, the fixing
25 structure defines a inner-concave portion on the inside of the top cover and a inner-protruding portion on the inside of the bottom cover, the inner-concave

portion defines a central hole and the inner-protruding portion has a sinking central hole corresponding to the central hole for fixing the circular saw machine by inserting a bolt, the inner-protruding portion is received in the inner-concave portion.

5 5. The laser alignment device of a circular saw machine as claimed as claim 4, wherein the bottom cover defines a sinking portion on the outside of the bottom cover and the sinking portion is composed of two parallel surfaces and two cambered surfaces for covering a fixing shaft of the circular saw machine, the sinking central hole is formed on the sinking portion.

10 6. The laser alignment device of a circular saw machine as claimed as claim 1, wherein the cover includes a top cover and a bottom cover, the inside of the top cover is relative to the inside of the bottom cover; the power control-supply unit includes a battery, a vibrating switch, a wire and a elastic part; the top cover and the bottom cover both has a battery receiving slot
15 corresponding to the battery and a wire receiving slot corresponding to the wire on the inside thereof, a negative end of the battery electrically is connected to the vibrating switch and received in the battery receiving slot, the elastic part is arranged on a inside of the battery receiving slot for closely pressing the battery and the wire is received in the wire receiving slot; the laser
20 module has a printed circuit board, the wire has a positive electrode and a negative electrode, a end of the positive electrode connects to a positive end of the battery and another end of the positive electrode connects to the printed circuit board, an end of the negative electrode connects to the vibrating switch and another end of the negative electrode connects to the printed circuit
25 board.

7. The laser alignment device of a circular saw machine as claimed as

claim 1, wherein the cover includes a top cover, a bottom cover and a
conductive pressing-slice, the inside of the top cover is relative to the inside of
the bottom cover; the power control-supply unit includes a ringlike circuit board,
a battery, a vibrating switch and a wire, the top cover defines a battery
5 receiving slot on the inside thereof, the bottom cover defines a ringlike circuit
board receiving slot and a wire receiving slot on the inside thereof, each of
the negative ends of the batteries electrically connects to respective negative
connecting points of the circuit board and each of the positive ends of the
batteries electrically connects to respective conductive pressing-slices, each
10 of the conductive pressing-slices electrically connects to respective positive
connecting points of the circuit board for series connection of the batteries by
the circuit board, a negative end of the circuit board electrically connects to the
vibrating switch, the wire is received in the wire receiving slot, the laser module
has a printed circuit board, the wire has a positive electrode and a negative
15 electrode, a end of the positive electrode connects to a positive end of the
circuit board and another end of the positive electrode connects to the printed
circuit board, a end of the negative electrode connects to the vibrating switch
and another end of the negative electrode connects to the printed circuit board,
the conductive pressing-slice is covered with a insulative film and closes the
20 top cover and the bottom cover to closely press the conductive pressing-slice
for fixing the battery.